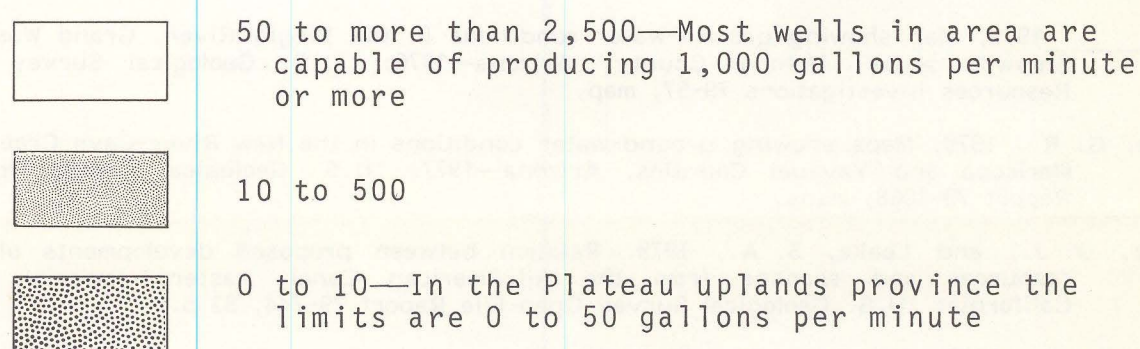


NOTE: Most areas in which the quality of the ground water is poor are designated in U.S. Geological Survey Hydrologic Investigations Atlas HA-478, "Quality of ground water in the lower Colorado River region, Arizona, Nevada, New Mexico, and Utah," by L. R. Kister (1973).

EXPLANATION

POTENTIAL WELL PRODUCTION, IN GALLONS PER MINUTE
(NOTE: THE VALUES OF POTENTIAL WELL PRODUCTION ARE BASED ON THE ASSUMPTION THAT THE WELL IS LOCATED FAVORABLY, IS SUFFICIENTLY DEEP TO TAP THE REGIONAL AQUIFER, AND IS PROPERLY CONSTRUCTED)



INDEX WELL—Upper number, 591, is depth to water, in feet, 1979 (R, well taps regional aquifer of great areal extent; L, well taps local aquifer of limited areal extent; P, well taps water level abnormally higher than regional water level; F, flowing well). Lower number, -19, is change in water level, in feet, 1974-79

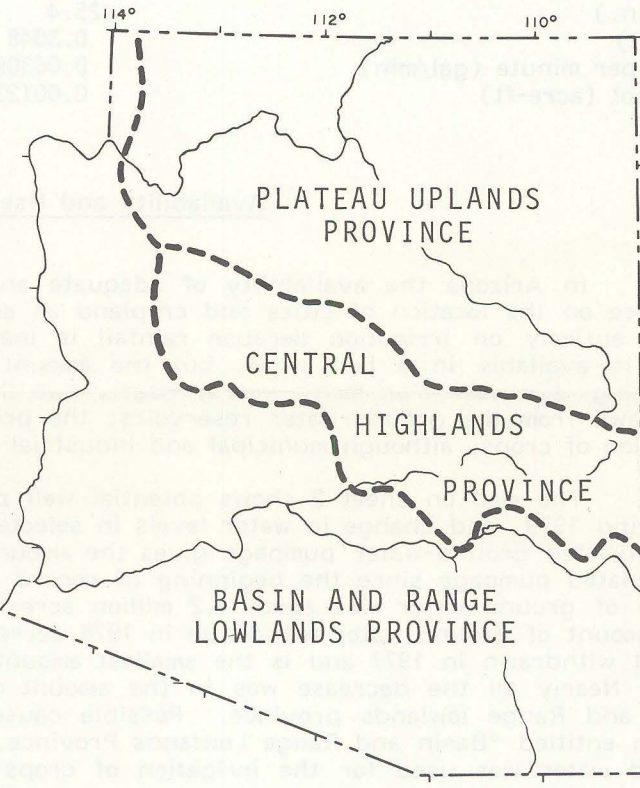
AGF = Agua Fria basin
ALT = Altar Valley
ARA = Aravaipa Valley
AVR = Avra Valley
BIC = Big Chino Valley
BIS = Big Sandy Valley
BWM = Bill Williams
BLM = Black Mesa
BRB = Black River basin
BOD = Bodaway Mesa Hill
BUT = Butler Valley
CDI = Canyon Diablo
CHV = Chevelon
CHN = Chinle
COP = Coconino Plateau
CHI = Colorado River, Hoover Dam to Imperial Dam
CON = Concho
DOU = Douglas basin
DUN = Duncan basin
GIL = Gila Bend basin
GRD = Gila River drainage from Painted Rock
GSK = Gila River from head of San Carlos Reservoir to Kelvin
GTD = Gila River from Texas Hill to Dome
GWA = Grand Wash
HAR = Harquahala Plains

AREAS AND ABBREVIATIONS

HAS = Hassayampa basin
HOL = Holbrook
HOP = Hopi
HOU = House Rock
HUA = Hualapai Valley
KAI = Kaibito
KAN = Kanab
LIC = Little Chino Valley
LHA = Lower Hassayampa
LSP = Lower San Pedro basin
LSC = Lower Santa Cruz basin
LVR = Lower Verde River
MMU = McMullen Valley
MON = Monument Valley
N-C = New River-Cave Creek
PSC = Peach Spring Canyon
PRZ = Puerco-Zuni
RAN = Ranegras Plain
SAC = Sacramento Valley
SAF = Safford basin
SRV = Salt River Valley
SVF = San Bernardino Valley
SFP = San Francisco Peaks
SFR = San Francisco River basin
SSI = San Simon basin
SSW = San Simon Wash
SHV = Shivwits
SNO = Snowflake

STJ = St. Johns
TON = Tonto basin
TUB = Tuba City
USR = Upper Salt River basin
USP = Upper San Pedro basin
USC = Upper Santa Cruz basin
VER = Upper Verde River
VRG = Virgin River
WMD = Western Mexican drainage
WHM = White Mountains
WRB = White River basin
WIL = Willcox basin
WMN = Williamson Valley
YUM = Yuma

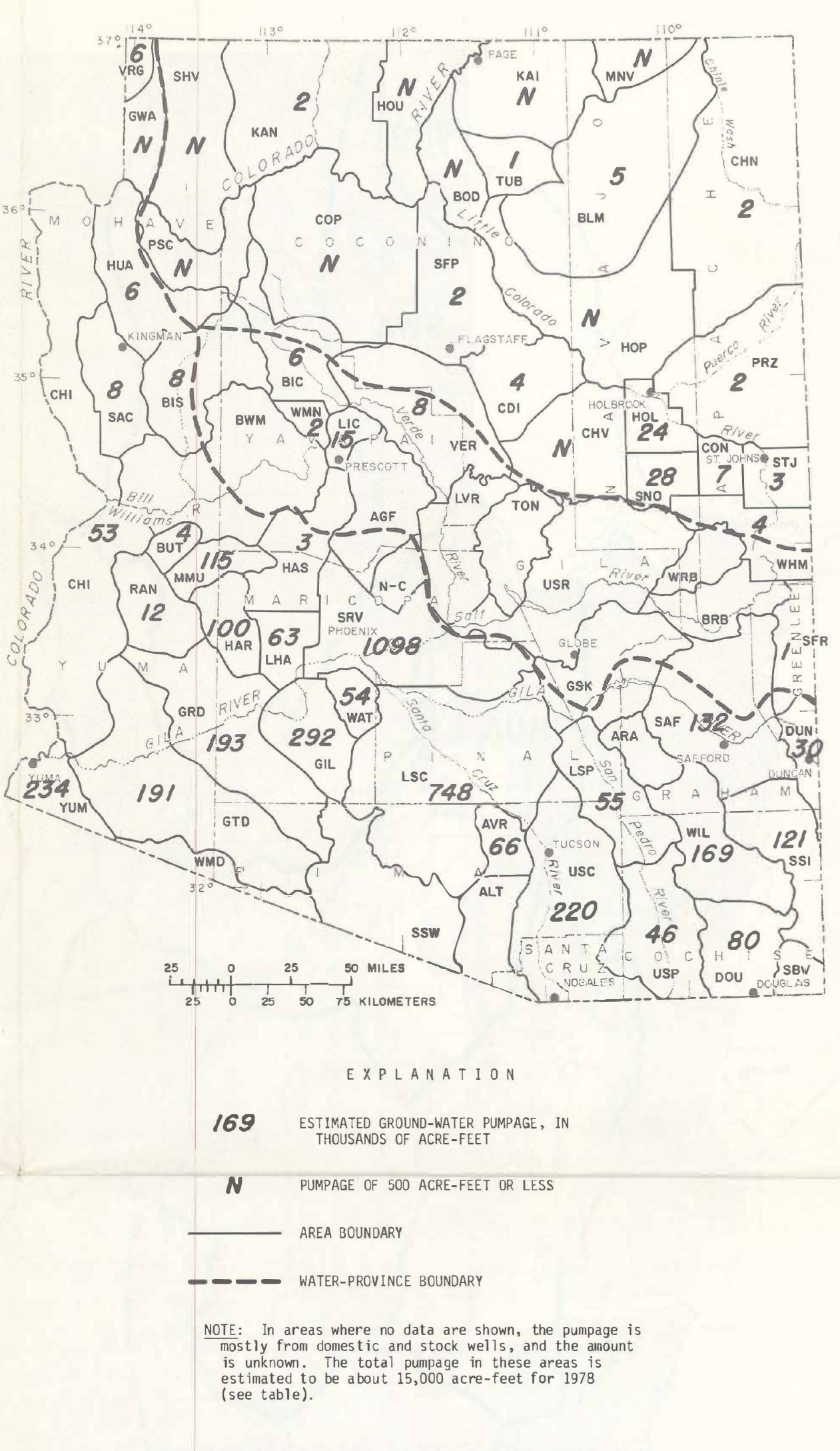
— AREA BOUNDARY
--- WATER-PROVINCE BOUNDARY



ARIZONA WATER PROVINCES

POTENTIAL WELL PRODUCTION, DEPTH TO WATER, 1979, AND CHANGE IN WATER LEVEL, 1974-79, IN SELECTED WELLS

SFUND RECORDS CTR
2390572 1 of 2



EXPLANATION OF SYMBOLS	
A: PUMPAGE OF 500 ACRE-FEET OR LESS.	
B: WATERWAY, MOSTLY FOR DRAINAGE PURPOSES.	E: YUMA AREA INCLUDES SOUTH GILA VALLEY, YUMA MESA, AND YUMA VALLEY. BEGINNING IN 1947 IN YUMA VALLEY, IN 1961 IN SOUTH GILA VALLEY, AND IN 1970 IN YUMA MESA, PART OF THE PUMPAGE WAS FOR DRAINAGE OF WATERLOGGED LANDS.
C: PUMPAGE FOR THESE AREAS WAS NOT ESTIMATED PRIOR TO 1974. THUS, TOTAL IS FOR 1974-78 ONLY. ESTIMATED PUMPAGE BEFORE 1974 IS INCLUDED IN "OTHERS."	F: PREVIOUSLY PUBLISHED FIGURE REVISID.
D: PUMPAGE FOR LHA AREA HAS INCLUDED IN SRA AREA PRIOR TO 1973. THUS, TOTAL IS FOR 1973-78 ONLY.	G: PUMPAGE FOR SIS, HAS, AND SFR AREAS WAS NOT ESTIMATED PRIOR TO 1970. ESTIMATED PUMPAGE BEFORE 1970 IS INCLUDED IN "OTHERS."
Q: PUMPAGE FOR USP AND LSP AREAS WAS NOT ESTIMATED PRIOR TO 1966. THUS, TOTAL IS FOR 1966-78 ONLY. ESTIMATED PUMPAGE BEFORE 1966 IS INCLUDED IN "OTHERS."	H: "OTHERS" INCLUDES: AGUA FRIA BASIN, ALTAR VALLEY, ADAPAPA VALLEY, BILL WILLIAMS, BLACK RIVER BASIN, GILA RIVER FROM HEAD OF SAN CARLOS RESERVOIR TO YUMA, GILA RIVER FROM YUMA MOUNTAIN TO YUMA, HENDON VALLEY, SAN JUAN RIVER, SAN JUAN RIVER BASIN, UPPER SALT RIVER BASIN, WESTERN MEXICAN UPLANDS, AND WHITE RIVER BASIN. PUMPAGE IN THESE AREAS IS MOSTLY FROM DOMESTIC AND STOCK WELLS, AND "THE AMOUNT IS UNKNOWN." TOTAL ANNUAL PUMPAGE FOR THESE AREAS IS ESTIMATED.

Recent Publications Prepared by Personnel of the U.S. Geological Survey in Arizona

The following reports on the water resources and geology of Arizona were published or released to the open file from July 1, 1978, through June 30, 1979.

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Bentley, C. B., 1979, Geohydrologic reconnaissance of Lake Mead National Recreation Area--Hoover Dam to Mount Davis, Arizona: U.S. Geological Survey Open-File Report 79-690, 37 p.

_____, 1979, Geohydrologic reconnaissance of Lake Mead National Recreation Area--Mount Davis to Davis Dam, Arizona: U.S. Geological Survey Open-File Report 79-691, 34 p.

_____, 1979, Geohydrologic reconnaissance of Lake Mead National Recreation Area--Opal Mountain to Davis Dam, Nevada: U.S. Geological Survey Open-File Report 79-692, 36 p.

Farrar, C. D., 1979, Map showing ground-water conditions in the Kalbito and Tuba City areas, Coconino and Navajo Counties, Arizona--1978: U.S. Geological Survey Water-Resources Investigations 79-58, map.

Koniczeki, A. D., and English, C. S., 1979, Maps showing ground-water conditions in the lower Santa Cruz area, Pinal, Pima, and Maricopa Counties, Arizona--1977: U.S. Geological Survey Water-Resources Investigations 79-56, maps.

Laney, R. L., 1979, Geohydrologic reconnaissance of Lake Mead National Recreation Area--Hoover Dam to Temple Bar, Arizona: U.S. Geological Survey Open-File Report 79-689, 42 p.

_____, 1979, Geohydrologic reconnaissance of Lake Mead National Recreation Area--Temple Bar to Grand Wash Cliffs, Arizona: U.S. Geological Survey Open-File Report 79-688, 72 p.

_____, 1979, Summary appraisal of the potential water resources in and near tract 01-113, Lake Mead National Recreation Area, Nevada: U.S. Geological Survey Open-File Report 79-698, 6 p.

Levings, G. W., and Farrar, C. D., 1979, Maps showing ground-water conditions in the Kanab area, Coconino and Mohave Counties, Arizona--1976: U.S. Geological Survey Open-File Report 79-1070, maps.

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Loeltz, O. J., and Leake, S. A., 1979, Relation between proposed developments of water resources and seepage from the All-American Canal, eastern Imperial Valley, California: U.S. Geological Survey Open-File Report 79-744, 83 p.

Mann, L. J., 1979, Water budget and mathematical model of the Coconino aquifer, southern Navajo County, Arizona: U.S. Geological Survey Open-File Report 79-348, 58 p.

Roeske, R. H., 1978, Methods for estimating the magnitude and frequency of floods in Arizona: Arizona Department of Transportation Report ADOT-RS-15(121), 82 p.

Roeske, R. H., Cooley, M. E., and Aldridge, B. N., 1978, Floods of September 1970 in Arizona, Utah, Colorado, and New Mexico: U.S. Geological Survey Water Supply Paper 2052, 135 p.

Schumann, H. H., 1978, Satellite snow-cover observations in Arizona, in Fall technical meeting of the American Society of Photogrammetry, 1978 Proceedings, Albuquerque, New Mexico: p. 480-489.

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